


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>	
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 921-35M4BS	
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES	
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES	
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6007	
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 01194 ST			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')	
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')	
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>	
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	478 FSL 543 FWL	SWSW	35	9.0 S	21.0 E	S	
Top of Uppermost Producing Zone	423 FSL 831 FWL	SWSW	35	9.0 S	21.0 E	S	
At Total Depth	423 FSL 831 FWL	SWSW	35	9.0 S	21.0 E	S	
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 423		23. NUMBER OF ACRES IN DRILLING UNIT 1083			
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 234		26. PROPOSED DEPTH MD: 9712 TVD: 9696			
27. ELEVATION - GROUND LEVEL 5090		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496			
ATTACHMENTS							
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES							
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER				<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)				<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)				<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156			
SIGNATURE		DATE 11/23/2010		EMAIL gnbregulatory@anadarko.com			
API NUMBER ASSIGNED 43047513930000		APPROVAL <div style="text-align: center;">  Permit Manager </div>					

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9712		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9712	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2540		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2540	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-35M4BS**

Surface: 478 FSL / 543 FWL SWSW
 BHL: 423 FSL / 831 FWL SWSW

Section 35 T9S R21E

Unitah County, Utah
 Mineral Lease: ST UT UO 01194 ST

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1413	
Birds Nest	1711	Water
Mahogany	2092	Water
Wasatch	4692	Gas
Mesaverde	7441	Gas
MVU2	8356	Gas
MVL1	8913	Gas
TVD	9696	
TD	9712	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 9,696' TVD, approximately equals 5,940 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,807 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

9. **Variances:**

*Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance*

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie

line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations. 12 of 16

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

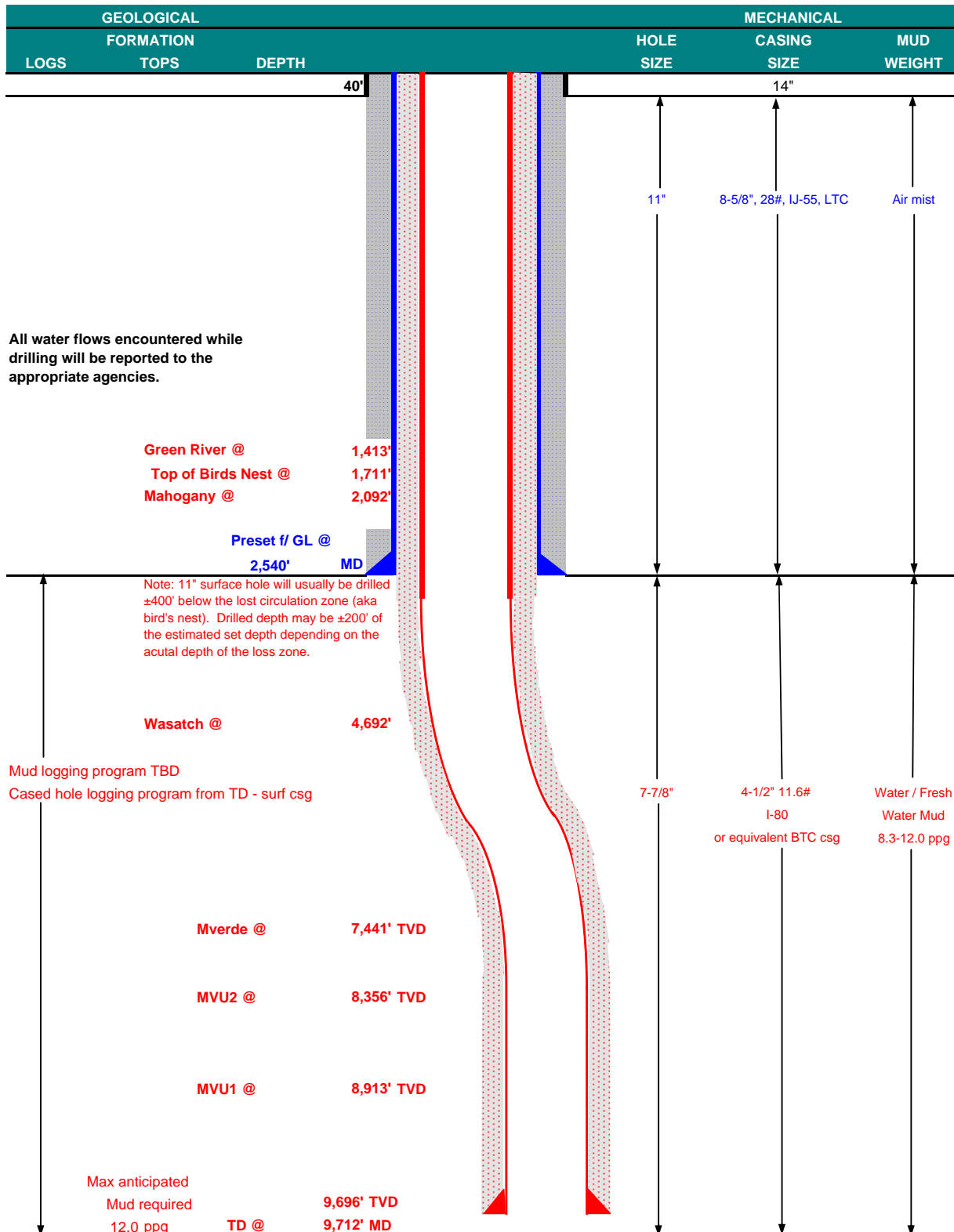
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 18, 2010		
WELL NAME	NBU 921-35M4BS					TD	9,696'	TVD	9,712' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		5,089'
SURFACE LOCATION	SWSW	478 FSL	543 FWL	Sec 35	T 9S	R 21E			
	Latitude: 39.986483		Longitude: -109.525706			NAD 27			
BTM HOLE LOCATION	SWSW	423 FSL	831 FWL	Sec 35	T 9S	R 21E			
	Latitude: 39.986343		Longitude: -109.524679			NAD 27			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,540	28.00	IJ-55	LTC	0.86	1.58	4.84
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,712	11.60	I-80	BTC	1.99	1.05	2.83

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.12

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,807 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,940 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,040'	65/35 Poz + 6% Gel + 10 pps gilsonite	190	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,192'	Premium Lite II +0.25 pps	300	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,520'	50/50 Poz/G + 10% salt + 2% gel	1,060	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

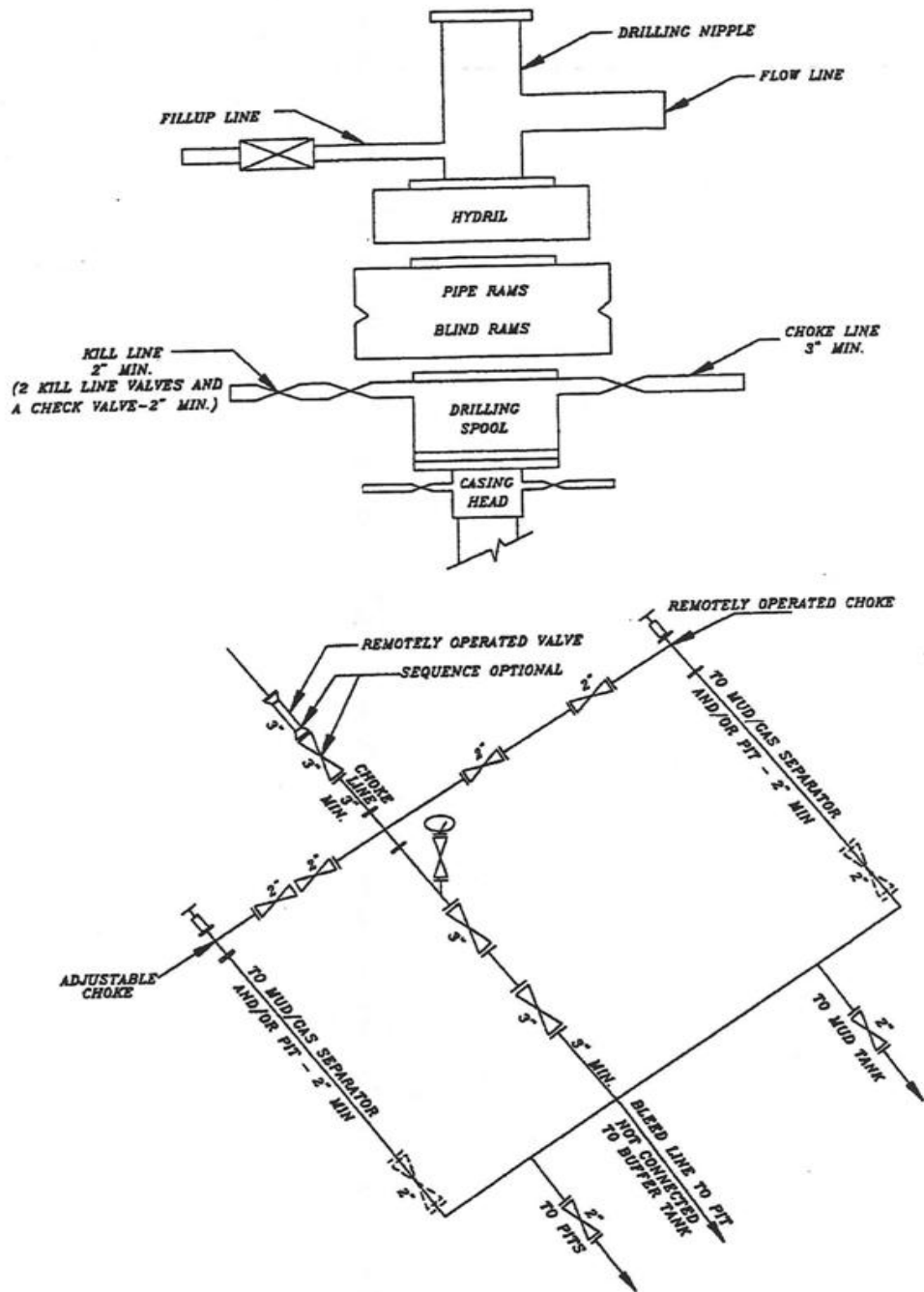
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

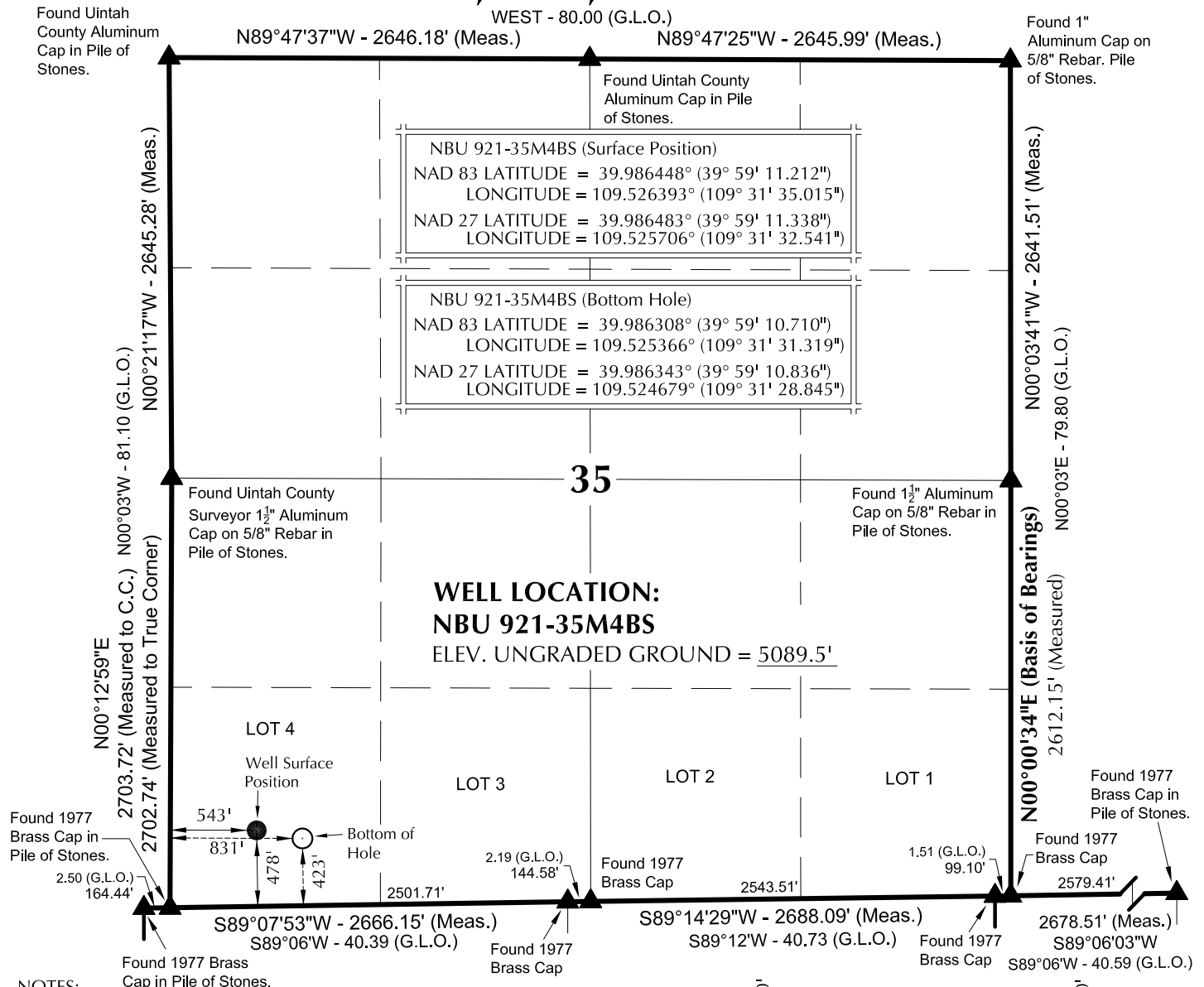
DATE:

EXHIBIT A
NBU 921-35M4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
1. Well footages are measured at right angles to the Section Lines.
 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
 3. The Bottom of hole bears S79°57'10"E 292.25' from the Surface Position.
 4. Bearings are based on Global Positioning Satellite observations.
 5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-35M

NBU 921-35M4BS
WELL PLAT

**423' FSL, 831' FWL (Bottom Hole)
LOT 4 OF SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.**



CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

TIMBERLINE

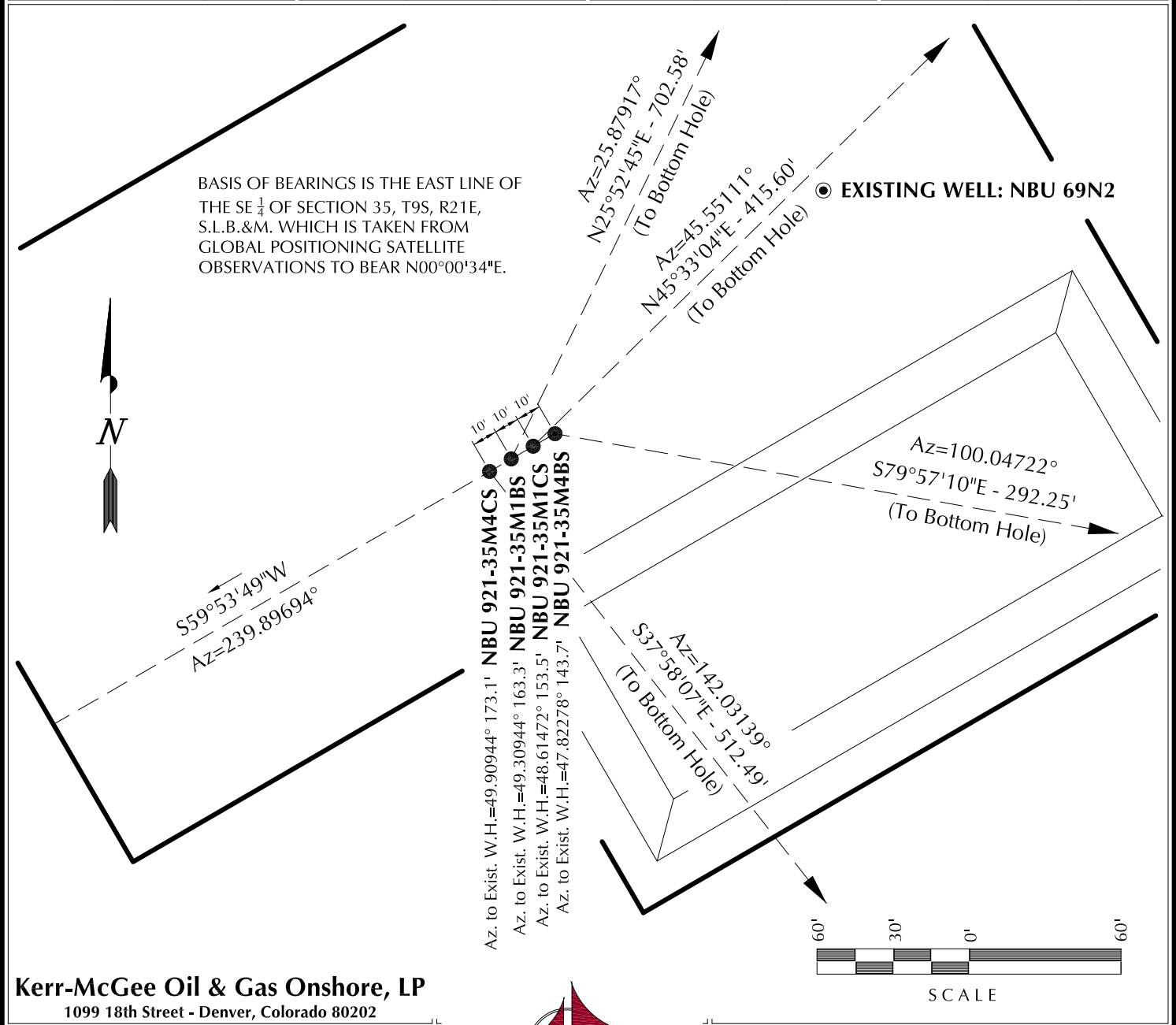
(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-29-10	SURVEYED BY: D.J.S.	SHEET NO: 4 4 OF 16
DATE DRAWN: 10-05-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised:	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35M4CS	39°59'11.064"	109°31'35.348"	39°59'11.190"	109°31'32.874"	464' FSL	39°59'07.074"	109°31'31.295"	39°59'07.200"	109°31'28.821"	55' FSL
	39.986407°	109.526486°	39.986442°	109.525798°	517' FWL	39.985298°	109.525360°	39.985333°	109.524673°	834' FWL
NBU 921-35M1BS	39°59'11.113"	109°31'35.238"	39°59'11.239"	109°31'32.764"	469' FSL	39°59'17.360"	109°31'31.305"	39°59'17.486"	109°31'28.831"	1096' FSL
	39.986420°	109.526455°	39.986455°	109.525768°	526' FWL	39.988156°	109.525363°	39.988191°	109.524675°	830' FWL
NBU 921-35M1CS	39°59'11.163"	109°31'35.127"	39°59'11.289"	109°31'32.652"	474' FSL	39°59'14.040"	109°31'31.319"	39°59'14.166"	109°31'28.845"	760' FSL
	39.986434°	109.526424°	39.986469°	109.525737°	534' FWL	39.987233°	109.525366°	39.987268°	109.524679°	830' FWL
NBU 921-35M4BS	39°59'11.212"	109°31'35.015"	39°59'11.338"	109°31'32.541"	478' FSL	39°59'10.710"	109°31'31.319"	39°59'10.836"	109°31'28.845"	423' FSL
	39.986448°	109.526393°	39.986483°	109.525706°	543' FWL	39.986308°	109.525366°	39.986343°	109.524679°	831' FWL
NBU 69N2	39°59'12.166"	109°31'33.649"	39°59'12.292"	109°31'31.175"	573' FSL					
	39.986713°	109.526014°	39.986748°	109.525326°	649' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole											
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-35M4CS	-404.0'	315.3'	NBU 921-35M1BS	632.1'	306.7'	NBU 921-35M1CS	291.0'	296.7	NBU 921-35M4BS	-51.0'	287.8'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35M

WELL PAD INTERFERENCE PLAT

WELLS - NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.


609

CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

DATE SURVEYED:
09-29-10

SURVEYED BY: D.J.S.

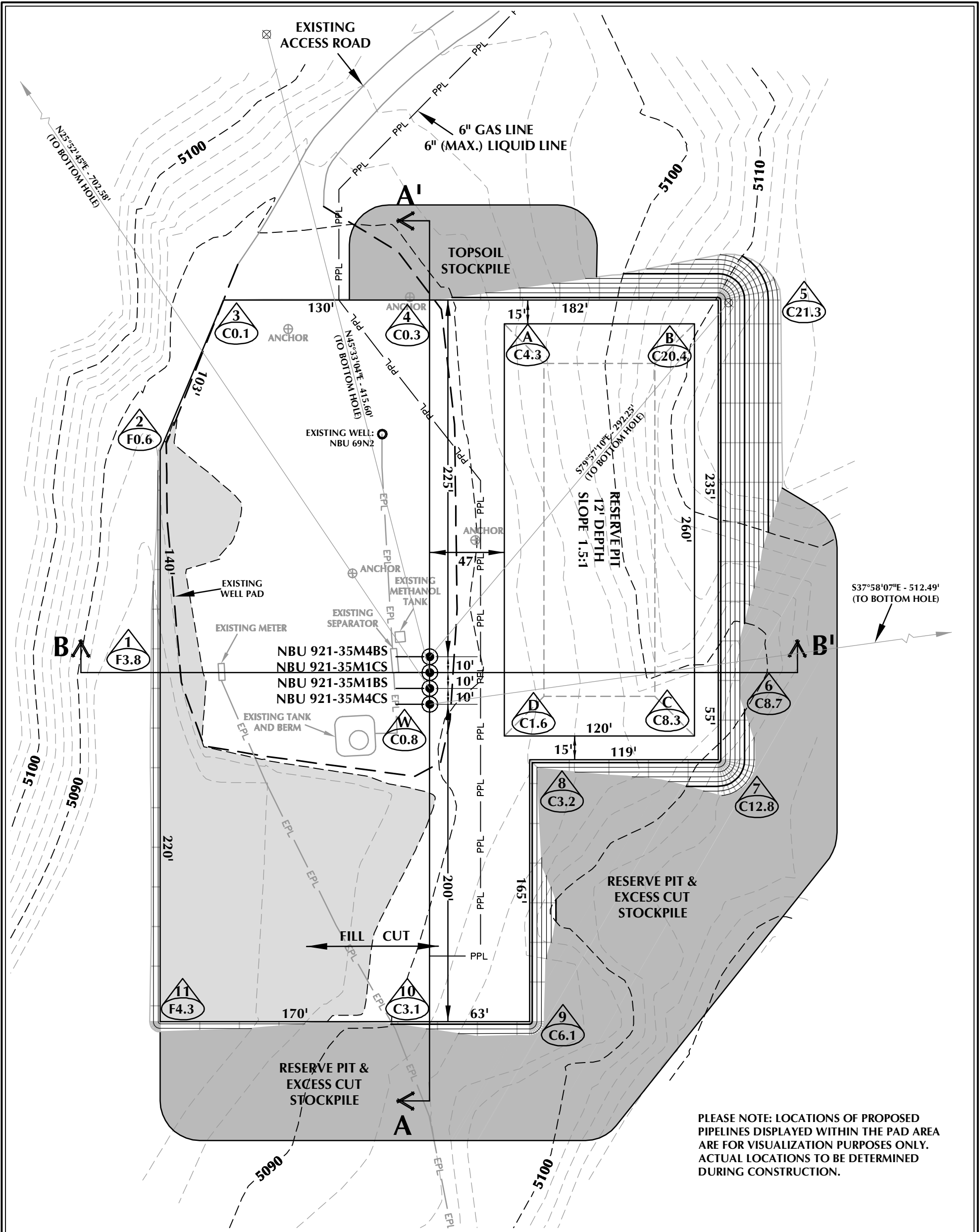
DATE DRAWN:
10-05-10

DRAWN BY: E.M.S.

SCALE: 1" = 60'

Date Last Revised:

SHEET NO:
5
5 OF 16



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 921-35M DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5089.7'
FINISHED GRADE ELEVATION = 5088.9'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.60 ACRES
TOTAL DAMAGE AREA = 6.28 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35M

WELL PAD - LOCATION LAYOUT
NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 21,038 C.Y.
TOTAL FILL FOR WELL PAD = 3,161 C.Y.
TOPSOIL @ 6" DEPTH = 1,989 C.Y.
EXCESS MATERIAL = 17,877 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

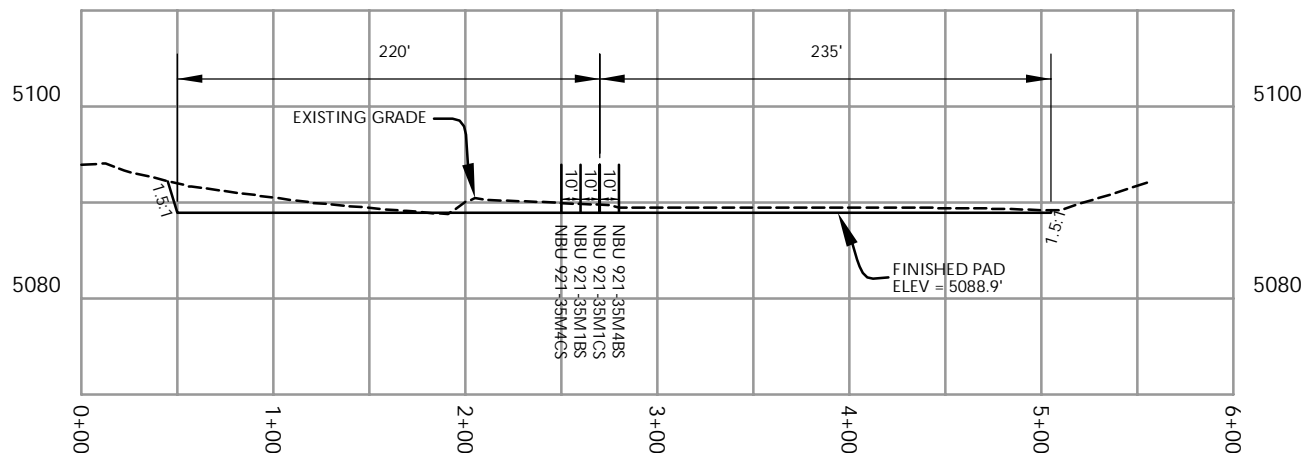
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



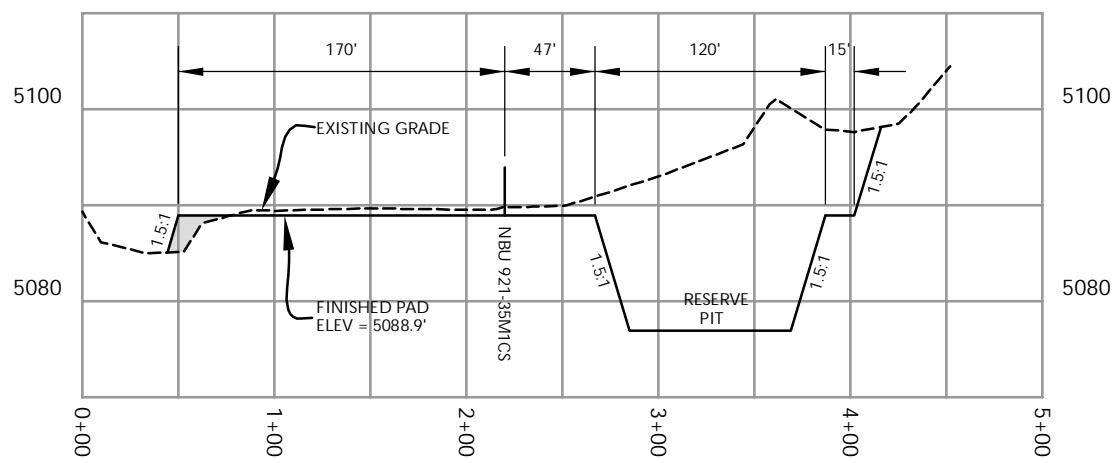
HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' Date: 10/19/10 SHEET NO:

REVISED: 6 6 OF 16



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35M

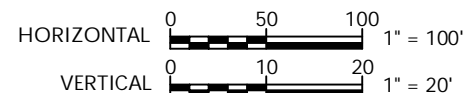
WELL PAD - CROSS SECTIONS
NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

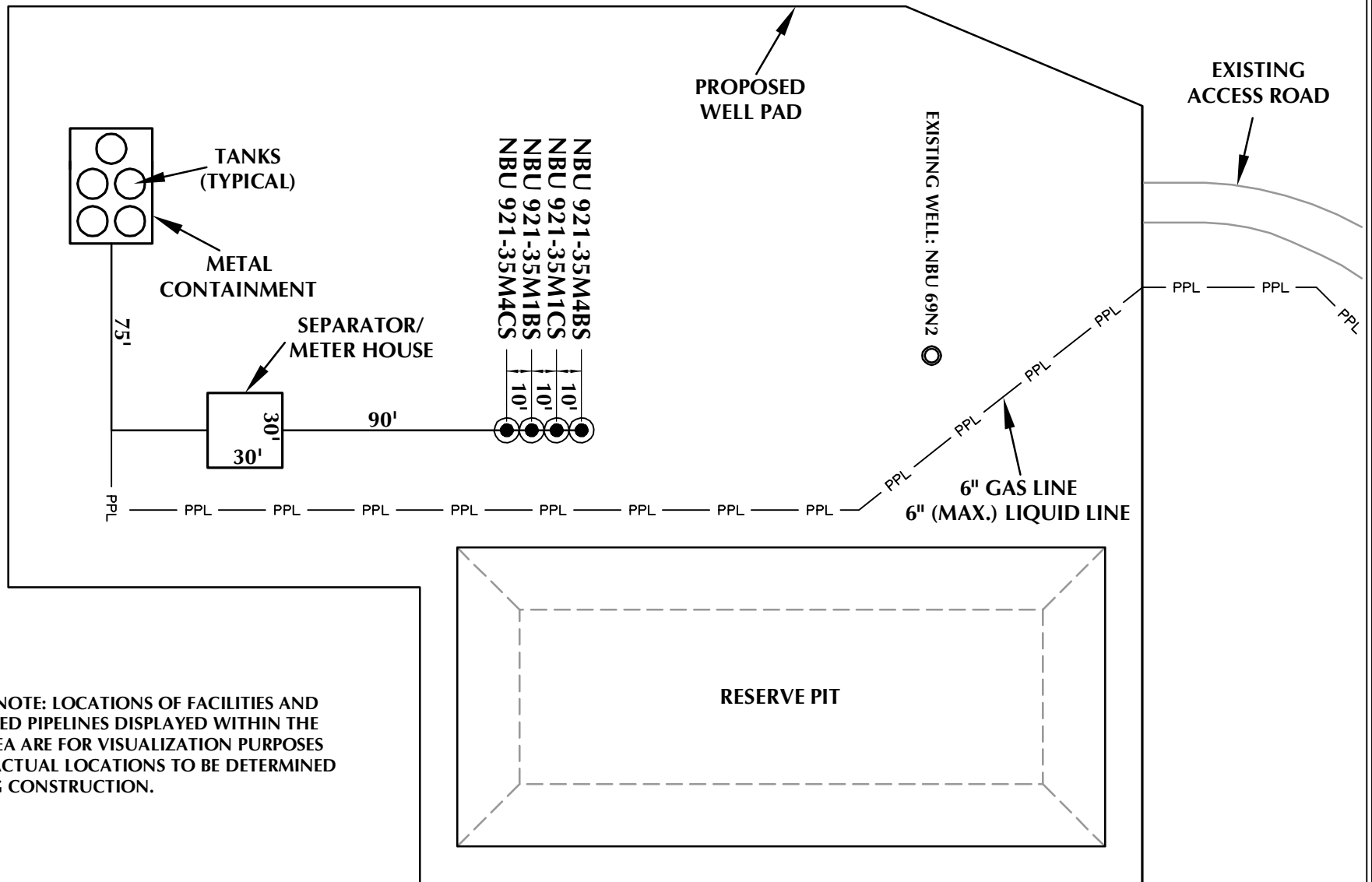
Date: 10/15/10

SHEET NO:

7

7 OF 16

REVISED:



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35M

WELL PAD - FACILITIES DIAGRAM
NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST • VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60'

Date: 10/15/10

SHEET NO:

REVISED:

8

8 OF 16

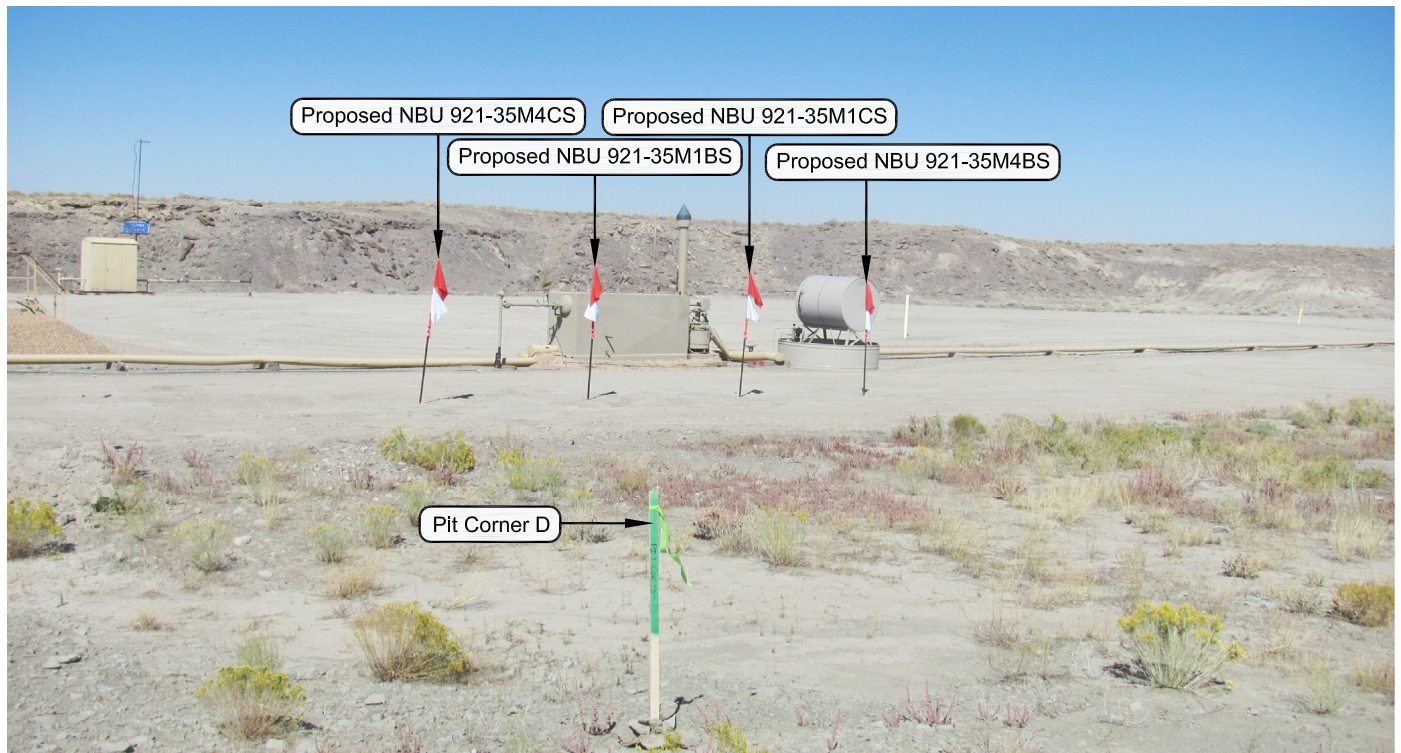


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: WESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35M

LOCATION PHOTOS
NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



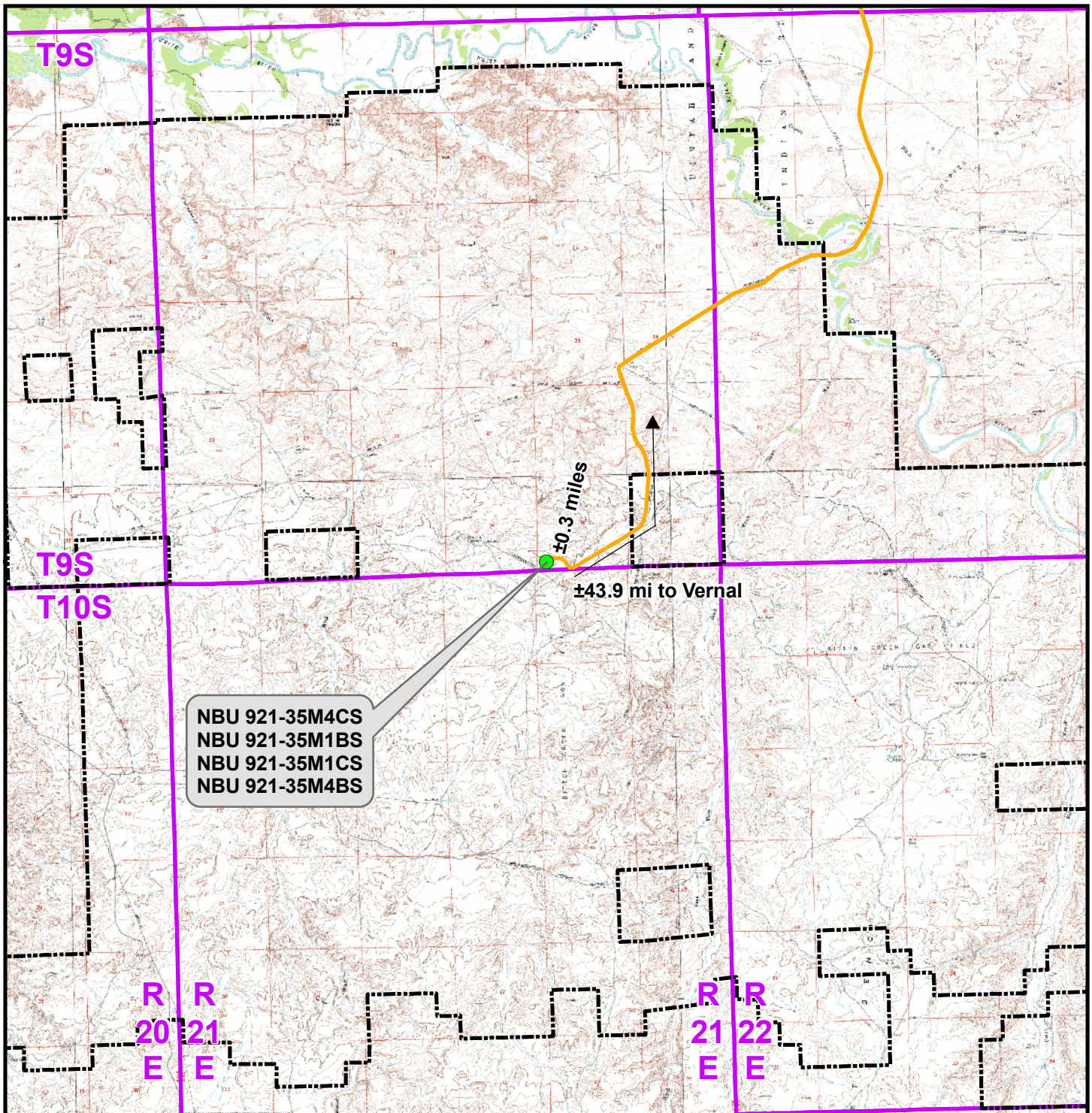
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 09-29-10	PHOTOS TAKEN BY: D.J.S.	9 9 OF 16
DATE DRAWN: 10-05-10	DRAWN BY: E.M.S.	
Date Last Revised:		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-35M To Unit Boundary: ±4,742ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35M

TOPO A

NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

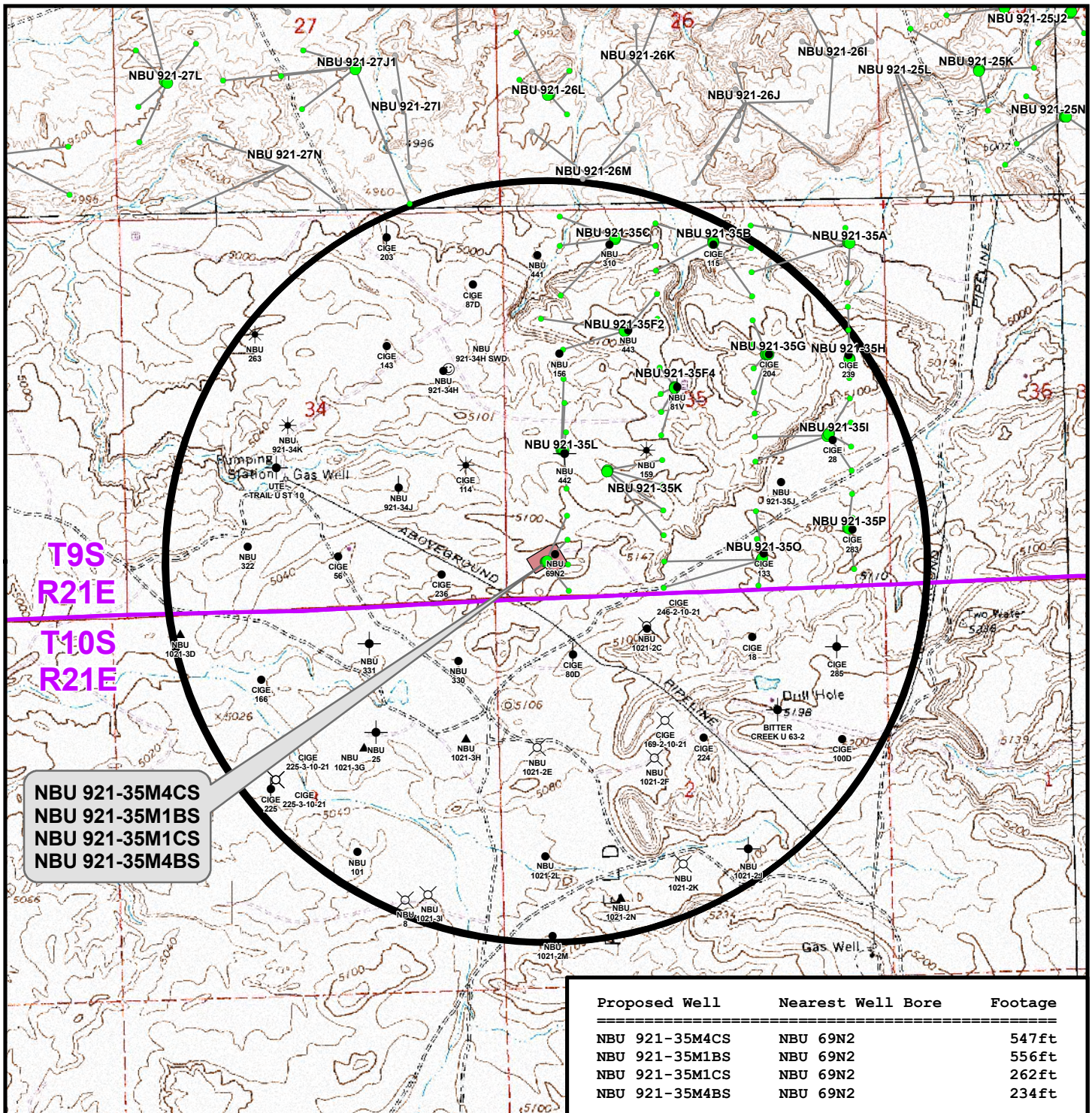


Scale: 1:100,000	NAD83 USP Central
Drawn: KGS	Date: 19 Oct 2010
Revised:	Date:

Sheet No:

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Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- Producing
- ★ Active
- ⊙ Spudded (Drilling commenced; Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35M

TOPO C

NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

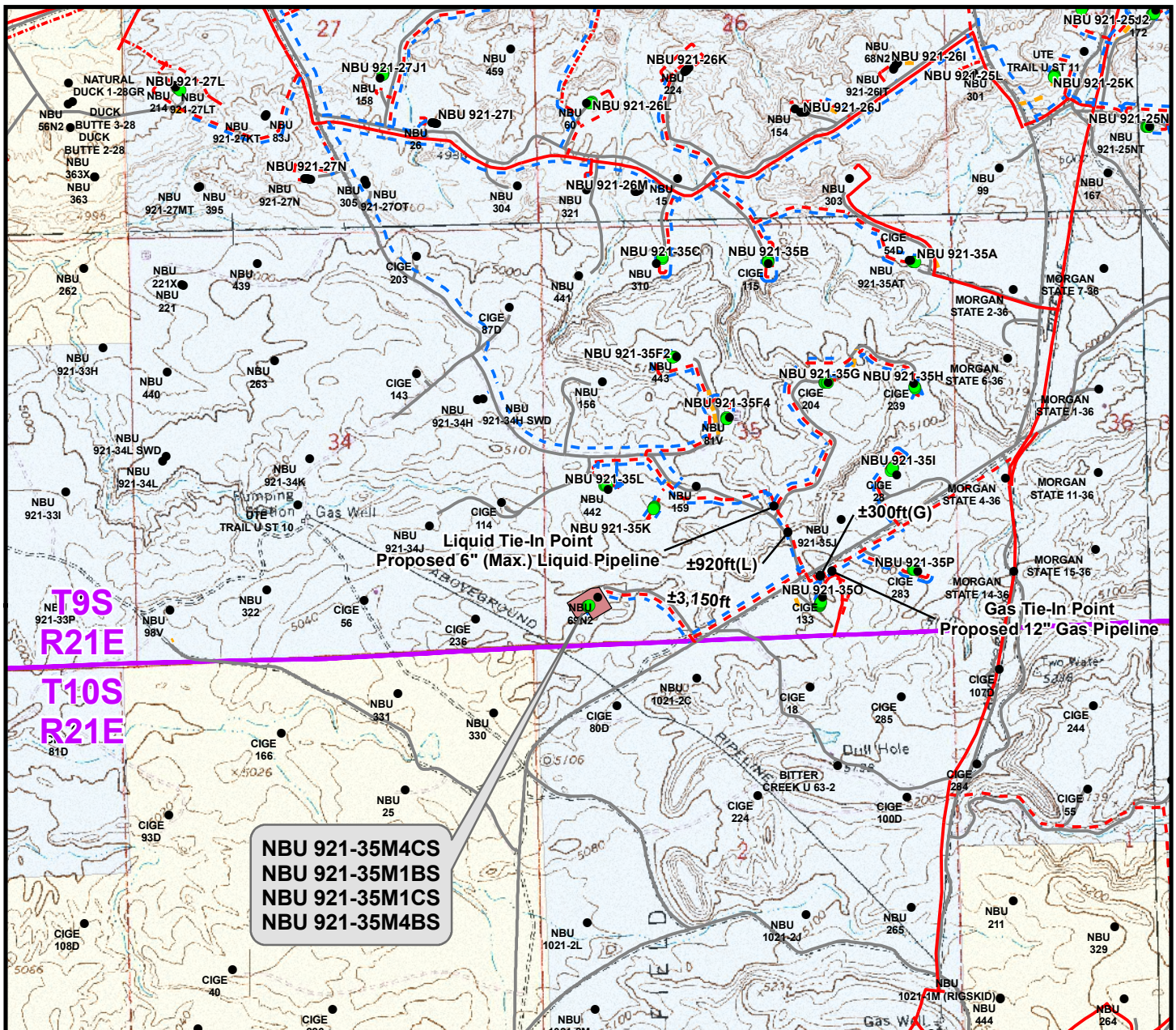


609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: KGS
Revised: KGS
Date: 19 Oct 2010
Date:

Sheet No:
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NBU 921-35M4CS
NBU 921-35M1BS
NBU 921-35M1CS
NBU 921-35M4BS

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±530ft
Proposed 6" (Max.) (Edge of Pad to 350 Intersection)	±3,150ft
Proposed 6" (Max.) (350 Intersection to 35G Intersection)	±920ft
TOTAL PROPOSED LIQUID PIPELINE =	±4,600ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±530ft
Proposed 6" (Edge of Pad to 35G Intersection)	±3,150ft
Proposed 12" (35G Intersection to 350 Intersection)	±300ft
TOTAL PROPOSED GAS PIPELINE =	±3,980ft

Legend

- Well - Proposed ■ Well Pad - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed ■ Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing ■ Indian Reservation
- - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - Road - Existing ■ State
- - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - Road - Existing ■ Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

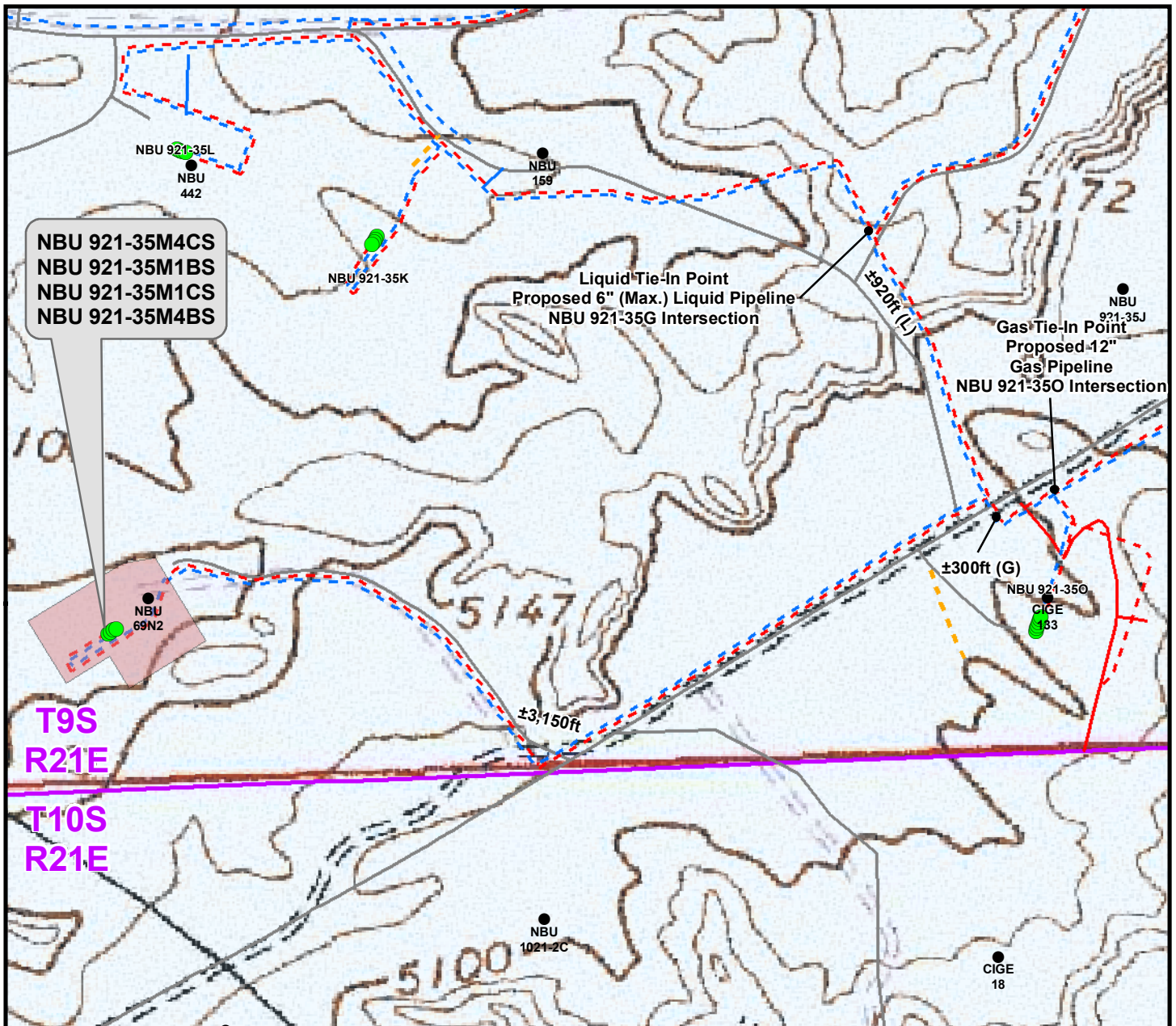
WELL PAD - NBU 921-35M

TOPO D
NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft NAD83 USP Central
Drawn: KGS Date: 19 Oct 2010
Revised: Date:

Sheet No:
13 13 of 16



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±530ft
Proposed 6" (Max.) (Edge of Pad to 350 Intersection)	±3,150ft
Proposed 6" (Max.) (350 Intersection to 35G Intersection)	±920ft
TOTAL PROPOSED LIQUID PIPELINE =	±4,600ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±530ft
Proposed 6" (Edge of Pad to 35G Intersection)	±3,150ft
Proposed 12" (35G Intersection to 350 Intersection)	±300ft
TOTAL PROPOSED GAS PIPELINE =	±3,980ft

Legend

- Well - Proposed ■ Well Pad - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed ■ Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing ■ Indian Reservation
- - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35M

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central
Drawn: KGS	Date: 19 Oct 2010
Revised:	Date:

Sheet No:
14
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 Well - Proposed
  Well Pad
 Gas Pipeline - Proposed
 Liquid Pipeline - Proposed
 Road - Proposed
  Bureau of Land Management
 Bottom Hole - Proposed
  Lease Boundary
  Gas Pipeline - To Be Upgraded
  Liquid Pipeline - To Be Upgraded
  Road - Existing
  Indian Reservation
 Bottom Hole - Existing
 Gas Pipeline - Existing
 Liquid Pipeline - Existing
  State
 Well Path
  Private

**NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH**



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	15
Revised:	Date:	

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**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35M
WELLS – NBU 921-35M4CS, NBU 921-35M1BS,
NBU 921-35M1CS & NBU 921-35M4BS
Section 35, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 20.4 miles to a Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the Class D County Road approximately 0.3 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 44.2 miles in a southerly direction.

WELL DETAILS: NBU 921-35M4BS

GL 5089' & KB 14'
@ 5103.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14524537.11	2053394.38	39° 59' 11.339 N	109° 31' 32.542 W

DESIGN TARGET DETAILS

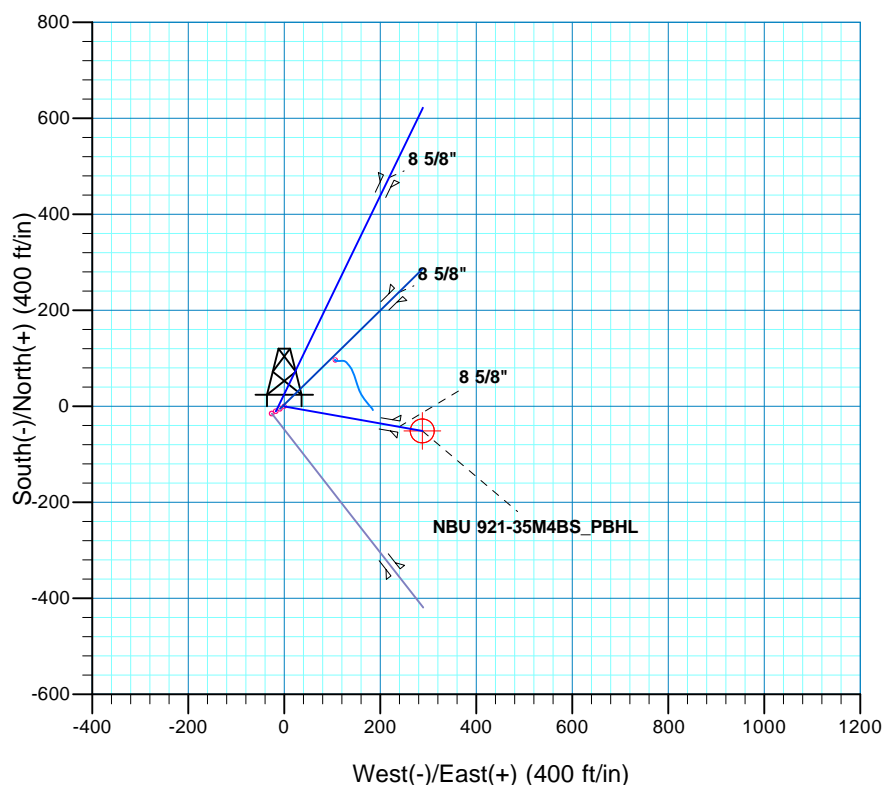
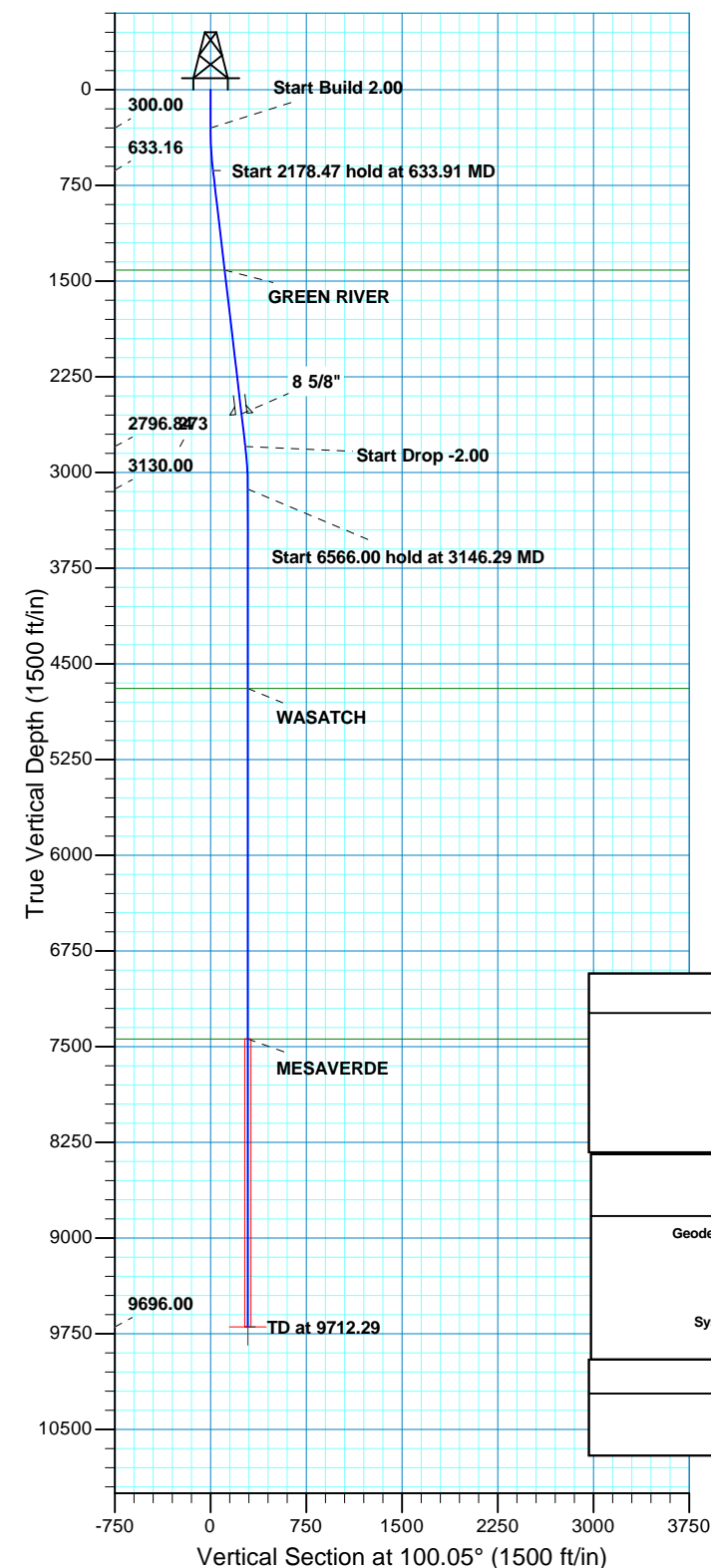
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9696.00	-50.99	287.73	14524490.89	2053682.92	39° 59' 10.835 N	109° 31' 28.844 W	Circle (Radius: 25.00)

- plan hits target center



Azimuths to True North
Magnetic North: 11.16°

Magnetic Field
Strength: 52379.8snT
Dip Angle: 65.87°
Date: 10/28/2010
Model: IGRF2010



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
633.91	6.68	100.05	633.16	-3.39	19.14	2.00	100.05	19.44
2812.38	6.68	100.05	2796.84	-47.60	268.59	0.00	0.00	272.78
3146.29	0.00	0.00	3130.00	-50.99	287.73	2.00	180.00	292.22
9712.29	0.00	0.00	9696.00	-50.99	287.73	0.00	0.00	292.22

NBU 921-35M4BS_PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SEC 35 T9S R21E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1413.00	1419.08	GREEN RIVER
4692.00	4708.29	WASATCH
7441.00	7457.29	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2542.00	2555.80	8 5/8"	8.625

Plan: PLAN #1 (NBU 921-35M4BS/OH)

Created By: RobertScott Date: 14:47, October 28 2010

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-35M PAD

NBU 921-35M4BS

OH

Plan: PLAN #1

Standard Planning Report

28 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	North Reference:	True
Well:	NBU 921-35M4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35M PAD, SEC 35 T9S R21E		
Site Position:		Northing:	14,524,537.11 usft
From:	Lat/Long	Easting:	2,053,394.37 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Grid Convergence:	0.95 °

Well	NBU 921-35M4BS, 478' FSL 543' FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,524,537.11 usft
	+E/-W	0.00 ft	Easting: 2,053,394.37 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 39° 59' 11.339 N
			Longitude: 109° 31' 32.542 W
			Ground Level: 5,089.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/28/2010	11.16	65.87	52,380

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	100.05

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
633.91	6.68	100.05	633.16	-3.39	19.14	2.00	2.00	0.00	100.05	
2,812.38	6.68	100.05	2,796.85	-47.60	268.59	0.00	0.00	0.00	0.00	
3,146.29	0.00	0.00	3,130.00	-50.99	287.73	2.00	-2.00	0.00	180.00	
9,712.29	0.00	0.00	9,696.00	-50.99	287.73	0.00	0.00	0.00	0.00	NBU 921-35M4BS_PI

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	North Reference:	True
Well:	NBU 921-35M4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	100.05	399.98	-0.30	1.72	1.75	2.00	2.00	0.00
500.00	4.00	100.05	499.84	-1.22	6.87	6.98	2.00	2.00	0.00
600.00	6.00	100.05	599.45	-2.74	15.45	15.69	2.00	2.00	0.00
633.91	6.68	100.05	633.16	-3.39	19.14	19.44	2.00	2.00	0.00
Start 2178.47 hold at 633.91 MD									
700.00	6.68	100.05	698.80	-4.73	26.71	27.12	0.00	0.00	0.00
800.00	6.68	100.05	798.12	-6.76	38.16	38.75	0.00	0.00	0.00
900.00	6.68	100.05	897.44	-8.79	49.61	50.38	0.00	0.00	0.00
1,000.00	6.68	100.05	996.76	-10.82	61.06	62.01	0.00	0.00	0.00
1,100.00	6.68	100.05	1,096.08	-12.85	72.51	73.64	0.00	0.00	0.00
1,200.00	6.68	100.05	1,195.40	-14.88	83.96	85.27	0.00	0.00	0.00
1,300.00	6.68	100.05	1,294.73	-16.91	95.41	96.90	0.00	0.00	0.00
1,400.00	6.68	100.05	1,394.05	-18.94	106.86	108.53	0.00	0.00	0.00
1,419.08	6.68	100.05	1,413.00	-19.32	109.05	110.75	0.00	0.00	0.00
GREEN RIVER									
1,500.00	6.68	100.05	1,493.37	-20.97	118.31	120.16	0.00	0.00	0.00
1,600.00	6.68	100.05	1,592.69	-22.99	129.77	131.79	0.00	0.00	0.00
1,700.00	6.68	100.05	1,692.01	-25.02	141.22	143.42	0.00	0.00	0.00
1,800.00	6.68	100.05	1,791.33	-27.05	152.67	155.05	0.00	0.00	0.00
1,900.00	6.68	100.05	1,890.65	-29.08	164.12	166.68	0.00	0.00	0.00
2,000.00	6.68	100.05	1,989.98	-31.11	175.57	178.30	0.00	0.00	0.00
2,100.00	6.68	100.05	2,089.30	-33.14	187.02	189.93	0.00	0.00	0.00
2,200.00	6.68	100.05	2,188.62	-35.17	198.47	201.56	0.00	0.00	0.00
2,300.00	6.68	100.05	2,287.94	-37.20	209.92	213.19	0.00	0.00	0.00
2,400.00	6.68	100.05	2,387.26	-39.23	221.37	224.82	0.00	0.00	0.00
2,500.00	6.68	100.05	2,486.58	-41.26	232.82	236.45	0.00	0.00	0.00
2,555.80	6.68	100.05	2,542.00	-42.39	239.21	242.94	0.00	0.00	0.00
8 5/8"									
2,600.00	6.68	100.05	2,585.90	-43.29	244.27	248.08	0.00	0.00	0.00
2,700.00	6.68	100.05	2,685.23	-45.32	255.73	259.71	0.00	0.00	0.00
2,800.00	6.68	100.05	2,784.55	-47.34	267.18	271.34	0.00	0.00	0.00
2,812.38	6.68	100.05	2,796.85	-47.60	268.59	272.78	0.00	0.00	0.00
Start Drop -2.00									
2,900.00	4.93	100.05	2,884.01	-49.14	277.32	281.64	2.00	-2.00	0.00
3,000.00	2.93	100.05	2,983.77	-50.34	284.06	288.48	2.00	-2.00	0.00
3,100.00	0.93	100.05	3,083.71	-50.92	287.37	291.84	2.00	-2.00	0.00
3,146.29	0.00	0.00	3,130.00	-50.99	287.73	292.22	2.00	-2.00	-216.12
Start 6566.00 hold at 3146.29 MD									
3,200.00	0.00	0.00	3,183.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,300.00	0.00	0.00	3,283.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,400.00	0.00	0.00	3,383.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,500.00	0.00	0.00	3,483.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,600.00	0.00	0.00	3,583.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,700.00	0.00	0.00	3,683.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,800.00	0.00	0.00	3,783.71	-50.99	287.73	292.22	0.00	0.00	0.00
3,900.00	0.00	0.00	3,883.71	-50.99	287.73	292.22	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	North Reference:	True
Well:	NBU 921-35M4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	0.00	0.00	3,983.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,100.00	0.00	0.00	4,083.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,200.00	0.00	0.00	4,183.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,300.00	0.00	0.00	4,283.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,400.00	0.00	0.00	4,383.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,500.00	0.00	0.00	4,483.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,600.00	0.00	0.00	4,583.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,700.00	0.00	0.00	4,683.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,708.29	0.00	0.00	4,692.00	-50.99	287.73	292.22	0.00	0.00	0.00
WASATCH									
4,800.00	0.00	0.00	4,783.71	-50.99	287.73	292.22	0.00	0.00	0.00
4,900.00	0.00	0.00	4,883.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,000.00	0.00	0.00	4,983.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,100.00	0.00	0.00	5,083.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,200.00	0.00	0.00	5,183.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,300.00	0.00	0.00	5,283.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,400.00	0.00	0.00	5,383.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,500.00	0.00	0.00	5,483.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,600.00	0.00	0.00	5,583.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,700.00	0.00	0.00	5,683.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,800.00	0.00	0.00	5,783.71	-50.99	287.73	292.22	0.00	0.00	0.00
5,900.00	0.00	0.00	5,883.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,000.00	0.00	0.00	5,983.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,100.00	0.00	0.00	6,083.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,200.00	0.00	0.00	6,183.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,300.00	0.00	0.00	6,283.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,400.00	0.00	0.00	6,383.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,500.00	0.00	0.00	6,483.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,600.00	0.00	0.00	6,583.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,700.00	0.00	0.00	6,683.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,800.00	0.00	0.00	6,783.71	-50.99	287.73	292.22	0.00	0.00	0.00
6,900.00	0.00	0.00	6,883.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,000.00	0.00	0.00	6,983.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,100.00	0.00	0.00	7,083.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,200.00	0.00	0.00	7,183.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,300.00	0.00	0.00	7,283.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,400.00	0.00	0.00	7,383.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,457.29	0.00	0.00	7,441.00	-50.99	287.73	292.22	0.00	0.00	0.00
MESAVERDE									
7,500.00	0.00	0.00	7,483.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,600.00	0.00	0.00	7,583.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,700.00	0.00	0.00	7,683.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,800.00	0.00	0.00	7,783.71	-50.99	287.73	292.22	0.00	0.00	0.00
7,900.00	0.00	0.00	7,883.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,000.00	0.00	0.00	7,983.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,100.00	0.00	0.00	8,083.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,200.00	0.00	0.00	8,183.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,300.00	0.00	0.00	8,283.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,400.00	0.00	0.00	8,383.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,500.00	0.00	0.00	8,483.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,600.00	0.00	0.00	8,583.71	-50.99	287.73	292.22	0.00	0.00	0.00
8,700.00	0.00	0.00	8,683.71	-50.99	287.73	292.22	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	North Reference:	True
Well:	NBU 921-35M4BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.00	0.00	0.00	8,783.71	-50.99	287.73	292.22	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,883.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,983.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,083.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,183.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,283.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,383.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,483.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,583.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,683.71	-50.99	287.73	292.22	0.00	0.00	0.00	
9,712.29	0.00	0.00	9,696.00	-50.99	287.73	292.22	0.00	0.00	0.00	
NBU 921-35M4BS_PBHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
NBU 921-35M4BS_PBH	0.00	0.00	9,696.00	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,555.80	2,542.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,419.08	1,413.00	GREEN RIVER				
4,708.29	4,692.00	WASATCH				
7,457.29	7,441.00	MESAVERDE				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
633.91	633.16	-3.39	19.14	Start 2178.47 hold at 633.91 MD	
2,812.38	2,796.85	-47.60	268.59	Start Drop -2.00	
3,146.29	3,130.00	-50.99	287.73	Start 6566.00 hold at 3146.29 MD	
9,712.29	9,696.00	-50.99	287.73	TD at 9712.29	

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-35M PAD
NBU 921-35M4BS

OH

Plan: PLAN #1

Survey Report - Geographic

28 October, 2010

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Well:	NBU 921-35M4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35M PAD, SEC 35 T9S R21E				
Site Position:		Northing:	14,524,537.11 usft	Latitude:	39° 59' 11.339 N
From:	Lat/Long	Easting:	2,053,394.37 usft	Longitude:	109° 31' 32.542 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.95 °

Well	NBU 921-35M4BS, 478' FSL 543' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,524,537.11 usft	Latitude:	39° 59' 11.339 N
	+E/-W	0.00 ft	Easting:	2,053,394.37 usft	Longitude:	109° 31' 32.542 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,089.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/28/2010	11.16	65.87	52,380

Design	PLAN #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	100.05	

Survey Tool Program	Date	10/28/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	9,712.29	PLAN #1 (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	14,524,537.11	2,053,394.37	39° 59' 11.339 N	109° 31' 32.542 W	
100.00	0.00	0.00	100.00	0.00	0.00	14,524,537.11	2,053,394.37	39° 59' 11.339 N	109° 31' 32.542 W	
200.00	0.00	0.00	200.00	0.00	0.00	14,524,537.11	2,053,394.37	39° 59' 11.339 N	109° 31' 32.542 W	
300.00	0.00	0.00	300.00	0.00	0.00	14,524,537.11	2,053,394.37	39° 59' 11.339 N	109° 31' 32.542 W	
Start Build 2.00										
400.00	2.00	100.05	399.98	-0.30	1.72	14,524,536.84	2,053,396.10	39° 59' 11.336 N	109° 31' 32.520 W	
500.00	4.00	100.05	499.84	-1.22	6.87	14,524,536.01	2,053,401.26	39° 59' 11.327 N	109° 31' 32.453 W	
600.00	6.00	100.05	599.45	-2.74	15.45	14,524,534.63	2,053,409.87	39° 59' 11.312 N	109° 31' 32.343 W	
633.91	6.68	100.05	633.16	-3.39	19.14	14,524,534.04	2,053,413.57	39° 59' 11.305 N	109° 31' 32.296 W	
Start 2178.47 hold at 633.91 MD										

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Well:	NBU 921-35M4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	EDM5000-RobertS-Local

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
700.00	6.68	100.05	698.80	-4.73	26.71	14,524,532.82	2,053,421.16	39° 59' 11.292 N	109° 31' 32.198 W
800.00	6.68	100.05	798.12	-6.76	38.16	14,524,530.98	2,053,432.64	39° 59' 11.272 N	109° 31' 32.051 W
900.00	6.68	100.05	897.44	-8.79	49.61	14,524,529.14	2,053,444.12	39° 59' 11.252 N	109° 31' 31.904 W
1,000.00	6.68	100.05	996.76	-10.82	61.06	14,524,527.30	2,053,455.60	39° 59' 11.232 N	109° 31' 31.757 W
1,100.00	6.68	100.05	1,096.08	-12.85	72.51	14,524,525.46	2,053,467.09	39° 59' 11.212 N	109° 31' 31.610 W
1,200.00	6.68	100.05	1,195.40	-14.88	83.96	14,524,523.63	2,053,478.57	39° 59' 11.192 N	109° 31' 31.463 W
1,300.00	6.68	100.05	1,294.73	-16.91	95.41	14,524,521.79	2,053,490.05	39° 59' 11.172 N	109° 31' 31.316 W
1,400.00	6.68	100.05	1,394.05	-18.94	106.86	14,524,519.95	2,053,501.54	39° 59' 11.152 N	109° 31' 31.168 W
1,419.08	6.68	100.05	1,413.00	-19.32	109.05	14,524,519.60	2,053,503.73	39° 59' 11.148 N	109° 31' 31.140 W
GREEN RIVER									
1,500.00	6.68	100.05	1,493.37	-20.97	118.31	14,524,518.11	2,053,513.02	39° 59' 11.132 N	109° 31' 31.021 W
1,600.00	6.68	100.05	1,592.69	-22.99	129.77	14,524,516.27	2,053,524.50	39° 59' 11.112 N	109° 31' 30.874 W
1,700.00	6.68	100.05	1,692.01	-25.02	141.22	14,524,514.43	2,053,535.99	39° 59' 11.091 N	109° 31' 30.727 W
1,800.00	6.68	100.05	1,791.33	-27.05	152.67	14,524,512.59	2,053,547.47	39° 59' 11.071 N	109° 31' 30.580 W
1,900.00	6.68	100.05	1,890.65	-29.08	164.12	14,524,510.75	2,053,558.95	39° 59' 11.051 N	109° 31' 30.433 W
2,000.00	6.68	100.05	1,989.98	-31.11	175.57	14,524,508.91	2,053,570.43	39° 59' 11.031 N	109° 31' 30.286 W
2,100.00	6.68	100.05	2,089.30	-33.14	187.02	14,524,507.07	2,053,581.92	39° 59' 11.011 N	109° 31' 30.139 W
2,200.00	6.68	100.05	2,188.62	-35.17	198.47	14,524,505.23	2,053,593.40	39° 59' 10.991 N	109° 31' 29.991 W
2,300.00	6.68	100.05	2,287.94	-37.20	209.92	14,524,503.39	2,053,604.88	39° 59' 10.971 N	109° 31' 29.844 W
2,400.00	6.68	100.05	2,387.26	-39.23	221.37	14,524,501.55	2,053,616.37	39° 59' 10.951 N	109° 31' 29.697 W
2,500.00	6.68	100.05	2,486.58	-41.26	232.82	14,524,499.71	2,053,627.85	39° 59' 10.931 N	109° 31' 29.550 W
2,555.80	6.68	100.05	2,542.00	-42.39	239.21	14,524,498.69	2,053,634.26	39° 59' 10.920 N	109° 31' 29.468 W
8 5/8"									
2,600.00	6.68	100.05	2,585.90	-43.29	244.27	14,524,497.87	2,053,639.33	39° 59' 10.911 N	109° 31' 29.403 W
2,700.00	6.68	100.05	2,685.23	-45.32	255.73	14,524,496.03	2,053,650.81	39° 59' 10.891 N	109° 31' 29.256 W
2,800.00	6.68	100.05	2,784.55	-47.34	267.18	14,524,494.19	2,053,662.30	39° 59' 10.871 N	109° 31' 29.109 W
2,812.38	6.68	100.05	2,796.85	-47.60	268.59	14,524,493.97	2,053,663.72	39° 59' 10.868 N	109° 31' 29.090 W
Start Drop -2.00									
2,900.00	4.93	100.05	2,884.01	-49.14	277.32	14,524,492.56	2,053,672.46	39° 59' 10.853 N	109° 31' 28.978 W
3,000.00	2.93	100.05	2,983.77	-50.34	284.06	14,524,491.48	2,053,679.22	39° 59' 10.841 N	109° 31' 28.892 W
3,100.00	0.93	100.05	3,083.71	-50.92	287.37	14,524,490.95	2,053,682.54	39° 59' 10.835 N	109° 31' 28.849 W
3,146.29	0.00	0.00	3,130.00	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
Start 6566.00 hold at 3146.29 MD									
3,200.00	0.00	0.00	3,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,300.00	0.00	0.00	3,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,400.00	0.00	0.00	3,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,500.00	0.00	0.00	3,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,600.00	0.00	0.00	3,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,700.00	0.00	0.00	3,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,800.00	0.00	0.00	3,783.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
3,900.00	0.00	0.00	3,883.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,000.00	0.00	0.00	3,983.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,100.00	0.00	0.00	4,083.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,200.00	0.00	0.00	4,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,300.00	0.00	0.00	4,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,400.00	0.00	0.00	4,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,500.00	0.00	0.00	4,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,600.00	0.00	0.00	4,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,700.00	0.00	0.00	4,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
4,708.29	0.00	0.00	4,692.00	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
WASATCH									
4,800.00	0.00	0.00	4,783.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Well:	NBU 921-35M4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	EDM5000-RobertS-Local

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,900.00	0.00	0.00	4,883.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,000.00	0.00	0.00	4,983.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,100.00	0.00	0.00	5,083.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,200.00	0.00	0.00	5,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,300.00	0.00	0.00	5,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,400.00	0.00	0.00	5,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,500.00	0.00	0.00	5,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,600.00	0.00	0.00	5,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,700.00	0.00	0.00	5,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,800.00	0.00	0.00	5,783.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
5,900.00	0.00	0.00	5,883.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,000.00	0.00	0.00	5,983.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,100.00	0.00	0.00	6,083.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,200.00	0.00	0.00	6,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,300.00	0.00	0.00	6,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,400.00	0.00	0.00	6,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,500.00	0.00	0.00	6,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,600.00	0.00	0.00	6,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,700.00	0.00	0.00	6,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,800.00	0.00	0.00	6,783.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
6,900.00	0.00	0.00	6,883.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,000.00	0.00	0.00	6,983.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,100.00	0.00	0.00	7,083.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,200.00	0.00	0.00	7,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,300.00	0.00	0.00	7,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,400.00	0.00	0.00	7,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,457.29	0.00	0.00	7,441.00	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
MESAVERDE									
7,500.00	0.00	0.00	7,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,600.00	0.00	0.00	7,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,700.00	0.00	0.00	7,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,800.00	0.00	0.00	7,783.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
7,900.00	0.00	0.00	7,883.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,000.00	0.00	0.00	7,983.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,100.00	0.00	0.00	8,083.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,200.00	0.00	0.00	8,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,300.00	0.00	0.00	8,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,400.00	0.00	0.00	8,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,500.00	0.00	0.00	8,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,600.00	0.00	0.00	8,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,700.00	0.00	0.00	8,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,800.00	0.00	0.00	8,783.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
8,900.00	0.00	0.00	8,883.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,000.00	0.00	0.00	8,983.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,100.00	0.00	0.00	9,083.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,200.00	0.00	0.00	9,183.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,300.00	0.00	0.00	9,283.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,400.00	0.00	0.00	9,383.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,500.00	0.00	0.00	9,483.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,600.00	0.00	0.00	9,583.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,700.00	0.00	0.00	9,683.71	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
9,712.29	0.00	0.00	9,696.00	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W
NBU 921-35M4BS_PBHL									

Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-35M4BS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Site:	NBU 921-35M PAD	MD Reference:	GL 5089' & KB 14' @ 5103.00ft (ASSUMED)
Well:	NBU 921-35M4BS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PLAN #1	Database:	EDM5000-RobertS-Local

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NBU 921-35M4BS_PBH - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,696.00	-50.99	287.73	14,524,490.89	2,053,682.91	39° 59' 10.835 N	109° 31' 28.844 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,555.80	2,542.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,419.08	1,413.00	GREEN RIVER			
4,708.29	4,692.00	WASATCH			
7,457.29	7,441.00	MESAVERDE			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300	300	0	0	Start Build 2.00	
634	633	-3	19	Start 2178.47 hold at 633.91 MD	
2812	2797	-48	269	Start Drop -2.00	
3146	3130	-51	288	Start 6566.00 hold at 3146.29 MD	
9712	9696	-51	288	TD at 9712.29	

Checked By: _____ Approved By: _____ Date: _____

NBU 921-35M1BS

Surface: 469' FSL 526' FWL (SW/4SW/4) Lot 4
BHL: 1,096' FSL 830' FWL (SW/4SW/4) Lot 4

NBU 921-35M1CS

Surface: 474' FSL 534' FWL (SW/4SW/4) Lot 4
BHL: 760' FSL 830' FWL (SW/4SW/4) Lot 4

NBU 921-35M4BS

Surface: 478' FSL 543' FWL (SW/4SW/4) Lot 4
BHL: 423' FSL 831' FWL (SW/4SW/4) Lot 4

NBU 921-35M4CS

Surface: 464' FSL 517' FWL (SW/4SW/4) Lot 4
BHL: 55' FSL 834' FWL (SW/4SW/4) Lot 4

Pad: NBU 921-35M
Section 35 T9S R21E
Mineral Lease: UO 1194 ST

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each

other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 69N2. This well location is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 3,980'$ and the individual segments are broken up as follows:

$\pm 530'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.

$\pm 3,150'$ (0.6 miles) –New 6" buried gas pipeline from the edge of pad to the NBU 921-35G pad intersection.

$\pm 330'$ (0.1 miles) –New 12" buried gas pipeline from the NBU 921-35G pad intersection to the NBU 921-35O pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 4,600'$ and the individual segments are broken up as follows:

- $\pm 530'$ (0.1 miles) –New 6” buried liquid pipeline from the meter to the edge of the pad.
- $\pm 3,150'$ (0.6 miles) –New 6” buried liquid pipeline from the edge of pad to the NBU 921-35O pad intersection.
- $\pm 920'$ (0.2 miles) –New 6” buried liquid pipeline from the NBU 921-35O pad intersection to the NBU 921-35G pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

- RNI in Sec. 5 T9S R22E
- Ace Oilfield in Sec. 2 T6S R20E
- MC&MC in Sec. 12 T6S R19E
- Pipeline Facility in Sec. 36 T9S R20E
- Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
- Bonanza Evaporation Pond in Sec. 2 T10S R23E
- Ouray #1 SWD in Sec. 1 T9S R21E
- NBU 159 SWD in Sec. 35 T9S R21E
- CIGE 112D SWD in Sec. 19 T9S R21E
- CIGE 114 SWD in Sec. 34 T9S R21E
- NBU 921-34K SWD in Sec. 34 T9S R21E
- NBU 921-33F SWD in Sec. 33 T9S R21E
- NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker, The liner

will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-

vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724


Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

November 19, 2010
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

October 27, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-35M4BS
T9S-R21E
Section 35: SWSW (Surf), SWSW (Bottom)
Surface: 478' FSL, 543' FWL
Bottom Hole: 423' FSL, 831' FWL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-35M4BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

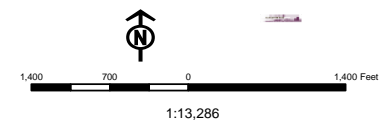
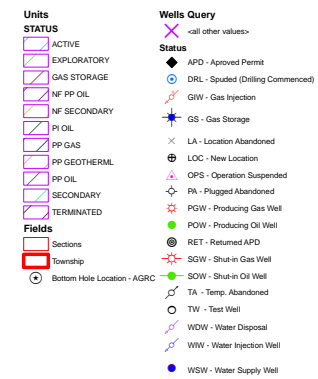
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

Map Produced by Diana Mason



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

December 1, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35F2 Pad

43-047-51355	NBU 921-35F1BS	Sec 35 T09S R21E 1684 FNL 1709 FWL
	BHL	Sec 35 T09S R21E 1531 FNL 2146 FWL

NBU 921-35F4 PAD

43-047-51356	NBU 921-35F4BS	Sec 35 T09S R21E 2473 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2210 FNL 2158 FWL

43-047-51357	NBU 921-35F4CS	Sec 35 T09S R21E 2483 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2567 FNL 2159 FWL

43-047-51358	NBU 921-35K1BS	Sec 35 T09S R21E 2493 FNL 2358 FWL
	BHL	Sec 35 T09S R21E 2484 FSL 2161 FWL

43-047-51359	NBU 921-35K1CS	Sec 35 T09S R21E 2503 FNL 2357 FWL
	BHL	Sec 35 T09S R21E 2163 FSL 2155 FWL

NBU 921-35G Pad

43-047-51360	NBU 921-35G1BS	Sec 35 T09S R21E 2053 FNL 1633 FEL
	BHL	Sec 35 T09S R21E 1583 FNL 1819 FEL

43-047-51361	NBU 921-35G1CS	Sec 35 T09S R21E 2053 FNL 1653 FEL
	BHL	Sec 35 T09S R21E 1916 FNL 1820 FEL

43-047-51362	NBU 921-35G4BS	Sec 35 T09S R21E 2053 FNL 1643 FEL
	BHL	Sec 35 T09S R21E 2250 FNL 1822 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51363	NBU 921-35G4CS	Sec 35 T09S R21E 2053 FNL 1623 FEL
	BHL	Sec 35 T09S R21E 2583 FNL 1823 FEL
43-047-51364	NBU 921-35J1BS	Sec 35 T09S R21E 2053 FNL 1613 FEL
	BHL	Sec 35 T09S R21E 2419 FSL 1824 FEL
NBU 921-35H PAD		
43-047-51365	NBU 921-35H1BS	Sec 35 T09S R21E 2143 FNL 0486 FEL
	BHL	Sec 35 T09S R21E 1411 FNL 0494 FEL
43-047-51366	NBU 921-35H1CS	Sec 35 T09S R21E 2133 FNL 0490 FEL
	BHL	Sec 35 T09S R21E 1743 FNL 0495 FEL
43-047-51367	NBU 921-35H4BS	Sec 35 T09S R21E 2124 FNL 0493 FEL
	BHL	Sec 35 T09S R21E 2075 FNL 0495 FEL
43-047-51368	NBU 921-35H4CS	Sec 35 T09S R21E 2152 FNL 0483 FEL
	BHL	Sec 35 T09S R21E 2407 FNL 0495 FEL
NBU 921-35I PAD		
43-047-51369	NBU 921-35I1BS	Sec 35 T09S R21E 2106 FSL 0794 FEL
	BHL	Sec 35 T09S R21E 2572 FSL 0496 FEL
43-047-51370	NBU 921-35I1CS	Sec 35 T09S R21E 2098 FSL 0800 FEL
	BHL	Sec 35 T09S R21E 2240 FSL 0496 FEL
43-047-51371	NBU 921-35I4BS	Sec 35 T09S R21E 2090 FSL 0806 FEL
	BHL	Sec 35 T09S R21E 1908 FSL 0496 FEL
43-047-51372	NBU 921-35I4CS	Sec 35 T09S R21E 2082 FSL 0811 FEL
	BHL	Sec 35 T09S R21E 1577 FSL 0497 FEL
43-047-51373	NBU 921-35J1CS	Sec 35 T09S R21E 2074 FSL 0817 FEL
	BHL	Sec 35 T09S R21E 2086 FSL 1825 FEL
43-047-51374	NBU 921-35J4BS	Sec 35 T09S R21E 2066 FSL 0823 FEL
	BHL	Sec 35 T09S R21E 1752 FSL 1826 FEL
NBU 921-35K PAD		
43-047-51375	NBU 921-35K4BS	Sec 35 T09S R21E 1710 FSL 1409 FWL
	BHL	Sec 35 T09S R21E 1814 FSL 2165 FWL
43-047-51376	NBU 921-35K4CS	Sec 35 T09S R21E 1702 FSL 1403 FWL
	BHL	Sec 35 T09S R21E 1469 FSL 2163 FWL
43-047-51377	NBU 921-35N1BS	Sec 35 T09S R21E 1694 FSL 1397 FWL
	BHL	Sec 35 T09S R21E 1124 FSL 2161 FWL
43-047-51378	NBU 921-35N1CS	Sec 35 T09S R21E 1686 FSL 1392 FWL
	BHL	Sec 35 T09S R21E 0771 FSL 2162 FWL

API #	WELL NAME	LOCATION
NBU 921-35L PAD		
43-047-51379	NBU 921-35E4CS	Sec 35 T09S R21E 2016 FSL 0768 FWL
	BHL	Sec 35 T09S R21E 2343 FNL 0823 FWL
43-047-51386	NBU 921-35L1BS	Sec 35 T09S R21E 2013 FSL 0778 FWL
	BHL	Sec 35 T09S R21E 2658 FSL 0826 FWL
43-047-51389	NBU 921-35L1CS	Sec 35 T09S R21E 2009 FSL 0787 FWL
	BHL	Sec 35 T09S R21E 2255 FSL 0835 FWL
43-047-51390	NBU 921-35L4CS	Sec 35 T09S R21E 2005 FSL 0796 FWL
	BHL	Sec 35 T09S R21E 1470 FSL 0832 FWL
NBU 921-35P PAD		
43-047-51380	NBU 921-35P4CS	Sec 35 T09S R21E 0781 FSL 0557 FEL
	BHL	Sec 35 T09S R21E 0208 FSL 0489 FEL
43-047-51381	NBU 921-35P1CS	Sec 35 T09S R21E 0778 FSL 0547 FEL
	BHL	Sec 35 T09S R21E 0913 FSL 0497 FEL
43-047-51382	NBU 921-35P1BS	Sec 35 T09S R21E 0785 FSL 0566 FEL
	BHL	Sec 35 T09S R21E 1245 FSL 0497 FEL
NBU 921-35O PAD		
43-047-51383	NBU 921-35O4CS	Sec 35 T09S R21E 0360 FSL 1780 FEL
	BHL	Sec 35 T09S R21E 0026 FSL 1826 FEL
43-047-51384	NBU 921-35O4BS	Sec 35 T09S R21E 0370 FSL 1777 FEL
	BHL	Sec 35 T09S R21E 0336 FSL 1833 FEL
43-047-51385	NBU 921-35O1CS	Sec 35 T09S R21E 0398 FSL 1766 FEL
	BHL	Sec 35 T09S R21E 0674 FSL 1828 FEL
43-047-51387	NBU 921-35O1BS	Sec 35 T09S R21E 0407 FSL 1763 FEL
	BHL	Sec 35 T09S R21E 1059 FSL 1833 FEL
43-047-51388	NBU 921-35N4CS	Sec 35 T09S R21E 0379 FSL 1773 FEL
	BHL	Sec 35 T09S R21E 0051 FSL 2153 FWL
43-047-51395	NBU 921-35N4BS	Sec 35 T09S R21E 0388 FSL 1770 FEL
	BHL	Sec 35 T09S R21E 0410 FSL 2164 FWL
NBU 921-35M PAD		
43-047-51391	NBU 921-35M1BS	Sec 35 T09S R21E 0469 FSL 0526 FWL
	BHL	Sec 35 T09S R21E 1096 FSL 0830 FWL
43-047-51392	NBU 921-35M1CS	Sec 35 T09S R21E 0474 FSL 0534 FWL
	BHL	Sec 35 T09S R21E 0760 FSL 0830 FWL

API #	WELL NAME	LOCATION
43-047-51393	NBU 921-35M4BS	Sec 35 T09S R21E 0478 FSL 0543 FWL
	BHL	Sec 35 T09S R21E 0423 FSL 0831 FWL
43-047-51394	NBU 921-35M4CS	Sec 35 T09S R21E 0464 FSL 0517 FWL
	BHL	Sec 35 T09S R21E 0055 FSL 0834 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of
Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.12.01 10:03:00 -07'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-1-10

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS (U-07-MQ-1437b,i,p,s)	API #4304751339		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35A4CS (U-07-MQ-1437b,i,p,s)	API #4304751340		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1BS (U-07-MQ-1437b,i,p,s)	API #4304751341		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4BS (U-07-MQ-1437b,i,p,s)	API #4304751342		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751343		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751344		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751345		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C4BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751346		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1CS (U-07-MQ-1437b,i,p,s)	API #4304751347		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1BS (U-07-MQ-1437b,i,p,s)	API #4304751348		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1CS (U-07-MQ-1437b,i,p,s)	API #4304751349		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D4CS (U-07-MQ-1437b,i,p,s)	API #4304751350		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35C4CS (U-07-MQ-1437b,i,p,s)	API #4304751351		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E1CS (U-07-MQ-1437b,i,p,s)	API #4304751352		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E2AS (U-07-MQ-1437b,i,p,s)	API #4304751353		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F1BS (U-07-MQ-1437b,i,p,s)	API #4304751355		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4BS (U-07-MQ-1437b,i,p,s)	API #4304751356		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4CS (U-07-MQ-1437b,i,p,s)	API #4304751357		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K1BS	API #4304751358		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)

MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K1CS	API #4304751359	IPC 10-97 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35G1BS	API #4304751360	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G1CS	API #4304751361	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4BS	API #4304751362	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4CS	API #4304751363	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35J1S	API #4304751364	IPC 10-98 Spot Paleo Monitoring	(U-07-
MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35H1BS	API #4304751365	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H1CS	API #4304751366	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4BS	API #4304751367	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4CS	API #4304751368	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1BS	API #4304751369	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1CS	API #4304751370	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4BS	API #4304751371	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4CS	API #4304751372	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J1CS	API #4304751373	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J4BS	API #4304751374	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4BS	API #4304751375	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4CS	API #4304751376	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1BS	API #4304751377	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1CS	API #4304751378	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35E4CS	API #4304751379	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P4CS	API #4304751380	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1CS	API #4304751381	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1BS	API #4304751382	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35O4CS	API #4304751383	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O4BS	API #4304751384	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O1CS	API #4304751385	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35L1BS	API #4304751386	IPC 10-99 Spot Paleo Monitoring	

(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35O1BS	API #4304751387	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35N4CS	API #4304751388	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35L1CS	API #4304751389	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35L4CS	API #4304751390	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1BS	API #4304751391	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1CS	API #4304751392	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4BS	API #4304751393	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4CS	API #4304751394	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N4BS	API #4304751395	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35M4BS 430475139			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2526	9696		
Previous Shoe Setting Depth (TVD)	40	2526		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5915	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1094	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	791	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	538	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	547	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

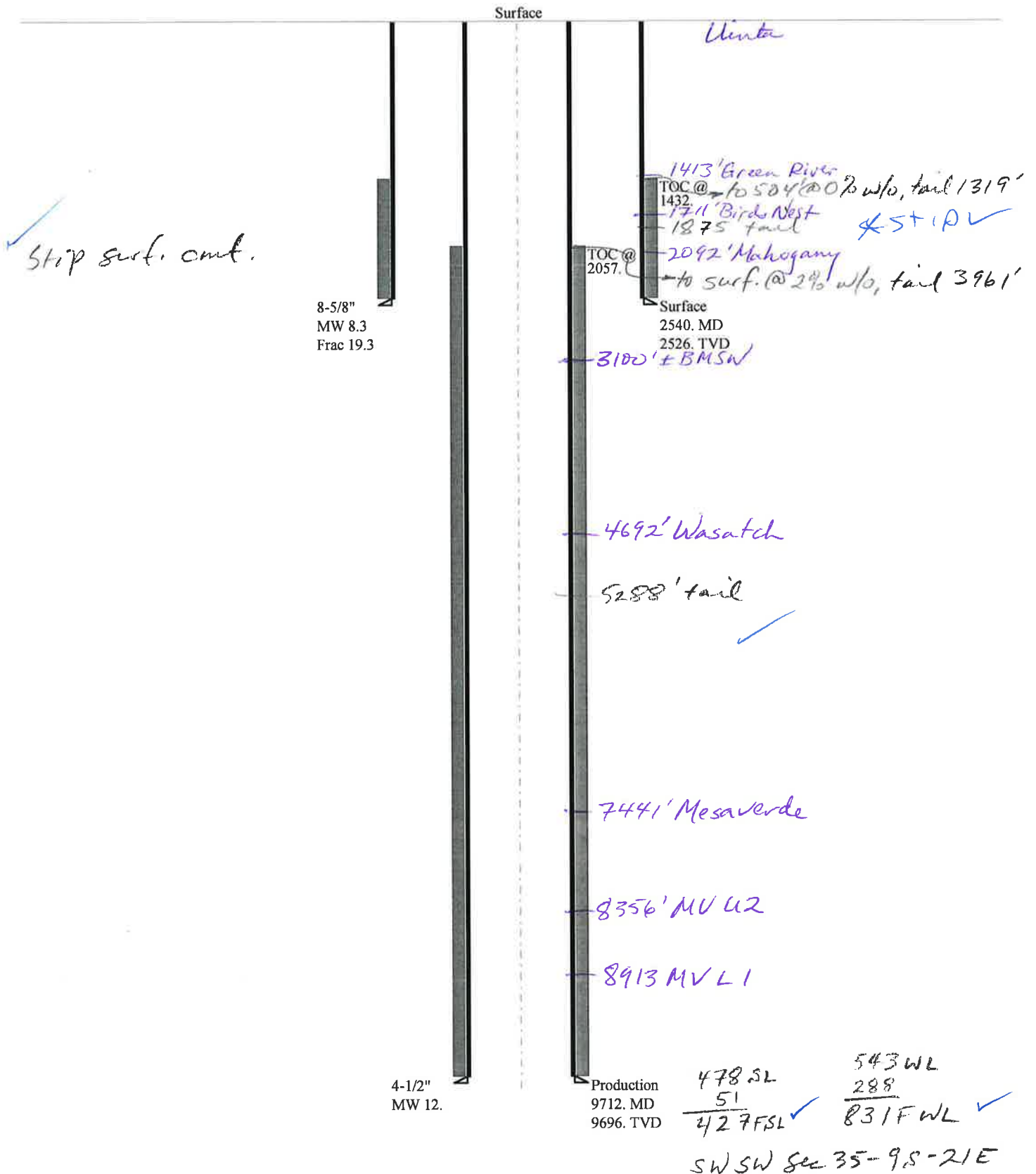
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6050	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4886	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3917	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4473	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2526	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047513930000 NBU 921-35M4BS

Casing Schematic



Well name:	43047513930000 NBU 921-35M4BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Surface	Project ID: 43-047-51393
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 109 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,432 ft

Burst

Max anticipated surface pressure: 2,235 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,538 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,228 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 241 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 6.68 °

Re subsequent strings:

Next setting depth: 9,696 ft
Next mud weight: 12.000 ppg
Next setting BHP: 6,044 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,540 ft
Injection pressure: 2,540 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2540	8.625	28.00	I-55	LT&C	2526	2540	7.892	100584
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1093	1880	1.720	2538	3390	1.34	70.7	348	4.92 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 28, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2526 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047513930000 NBU 921-35M4BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-51393
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 210 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,057 ft

Burst

Max anticipated surface pressure: 3,911 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,044 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.

Neutral point: 7,973 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 292 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9712	4.5	11.60	I-80	LT&C	9696	9712	3.875	128198

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5540	6360	1.148	6044	7780	1.29	112.5	212	1.88 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 28, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9696 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 921-35M4BS				
API Number	43047513930000	APD No	3218	Field/Unit	NATURAL BUTTES
Location: 1/4,1/4	SWSW	Sec	35	Tw	9.0S
		Rng	21.0E	478	FSL 543 FWL
GPS Coord (UTM)	Surface Owner				

Participants

See other comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 44.2 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35M pad will be created by significantly enlarging the existing pad of the NBU 69N2 gas well. It will be enlarged in all directions except to the east. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35M4CS, NBU 921-35M1BS, NBU 921-35M1CS and NBU 921-35M4BS. The site is in moderately hilly terrain. A rock ridge exists to the north. A diversion ditch for the existing pad has been cut at the south toe of this ridge and must be maintained. This limits the north extension of the pad. The pad extends to the south into a hill which will be excavated for the reserve pit. A major tributary of Sand Wash is about 1 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes rabbit brush, Indian ricegrass, stipa commata, greasewood, broom snakeweed, shadscale and halogeton.

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are a shallow rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		40

1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 260' x 12' deep located in a cut on the southeast corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett

11/30/2010

Evaluator

Date / Time

Application for Permit to Drill

Statement of Basis

12/30/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3218	43047513930000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35M4BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SWSW 35 9S 21E S 478 FSL 543 FWL GPS Coord (UTM) 625876E 4427075N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,540' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,100'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to cover the base of the moderately saline ground water in order to isolate fresher waters uphole.

 Brad Hill
APD Evaluator

 12/15/2010
Date / Time
Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 37 air miles and 44.2 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35M pad will be created by significantly enlarging the existing pad of the NBU 69N2 gas well. It will be enlarged in all directions except to the east. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35M4CS, NBU 921-35M1BS, NBU 921-35M1CS and NBU 921-35M4BS. The site is in moderately hilly terrain. A rock ridge exists to the north. A diversion ditch for the existing pad has been cut at the south toe of this ridge and must be maintained. This limits the north extension of the pad. The pad extends to the south into a hill which will be excavated for the reserve pit. A major tributary of Sand Wash is about 1 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

 Floyd Bartlett
Onsite Evaluator

 11/30/2010
Date / Time

Application for Permit to Drill
Statement of Basis

12/30/2010

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/23/2010

WELL NAME: NBU 921-35M4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

CONTACT: Danielle Piernot

API NO. ASSIGNED: 43047513930000

PHONE NUMBER: 720 929-6156

PROPOSED LOCATION: SWSW 35 090S 210E

SURFACE: 0478 FSL 0543 FWL

BOTTOM: 0423 FSL 0831 FWL

COUNTY: UINTAH

LATITUDE: 39.98637

UTM SURF EASTINGS: 625876.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 01194 ST

SURFACE OWNER: 3 - State

Permit Tech Review: ☒

Engineering Review: ☒

Geology Review: ☒

LONGITUDE: -109.52570

NORTHINGS: 4427075.00

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☒ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** NATURAL BUTTES
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 173-14
- Effective Date:** 12/2/1999
- Siting:** Suspends General Siting
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmadonald



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-35M4BS
API Well Number: 43047513930000
Lease Number: UO 01194 ST
Surface Owner: STATE
Approval Date: 12/30/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14 commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

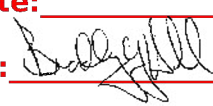
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 01194 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35M4BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0478 FSL 0543 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513930000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/30/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
Approved by the Utah Division of Oil, Gas and Mining Date: 01/03/2012 By: 		
NAME (PLEASE PRINT) Danielle Piernot		PHONE NUMBER 720 929-6156
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 12/21/2011		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047513930000

API: 43047513930000

Well Name: NBU 921-35M4BS

Location: 0478 FSL 0543 FWL QTR SWSW SEC 35 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/30/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Danielle Piernot

Date: 12/21/2011

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Dec. 21, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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COUNTY: UINTAH		STATE: UTAH
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<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining Date: December 12, 2012 By: </div>		
NAME (PLEASE PRINT) Luke Urban	PHONE NUMBER 720 929-6501	TITLE Regulatory Specialist
SIGNATURE N/A		DATE 12/11/2012



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047513930000

API: 43047513930000

Well Name: NBU 921-35M4BS

Location: 0478 FSL 0543 FWL QTR SWSW SEC 35 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/30/2010

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Signature: Luke Urban

Date: 12/11/2012

Title: Regulatory Specialist **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

January 9, 2014

Kerr McGee Oil & Gas Onshore, L.P.
P.O. Box 173779
Denver, CO 80217

Re: APD Rescinded – NBU 921-35M4BS, Sec. 35, T.9S, R.21E,
Uintah County, Utah API No. 43-047-51393

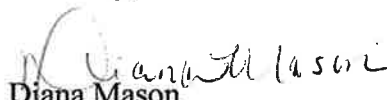
Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 30, 2010. On January 3, 2012 and December 12, 2012 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 9, 2014.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
SITLA, Ed Bonner

